(d) Wind power harnessing is in the private sector, with both Central and State Government playing the role of facilitators. Accordingly, the need for such tripartite agreement has not arisen.

Energy generation by bio-gas plants

229. KUMARI NIRMALA DESHPANDE: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the energy generated by bio-gas plants and utilization thereof, field-wise;

(b) the States that have achieved some result in this field; and

(c) the incentives given for this work?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) and (b) Cattle dung based family size biogas plants for meeting cooking energy requirement have been installed in almost all the States and Union Territories of the country. Large and medium size biogas plants based on urban and industrial wastes including cattle dung have been installed in the States of Andrha Pradesh, Gujarat, Madhya Pradesh, Maharashtra, Punjab, Tamil Nadu, Uttar Pradesh and West Bengal.

Application-wise details of biogas installations and estimated energy generation are given in Statement-I (*See* below).

(c) Programme-wise financial incentives being provided by the Ministry for installation of biogas plants and energy generation systems are given in Statement-II (*See* below).

Statement-I

Application-wise details of biogas installations and estimated energy generation

Sl. No.	Types of Biogas Plants	Estimated Energy Genration Capacity			
		No. of Plants	Biogas (m3)	Electrical Energy (KW)	Thermal Energy in lakh Mega Joule (MJ)
1.	Family size Biogas Plants for cooking applications	39,34,136	78,68,272	-	-
2.	Large size Biogas Plants based on urban wastes for power generation	5	69,100	6,950	
3.	Large size Biogas Plants based on industrial wastes for power and thermal energy generation	16	1,58,860	4,980	16,680
4.	Medium size Biogas Plants based electricity generation	2	536	80	
	TOTAL:	39,34,159	81,28,496	12,010	16,680

Statement-II

Programme-wise Financial Incentives for Installation of Biogas Plants and Energy Generation Systems

A. National Biogas and Manure Management Programme (NBMMP): Family size biogas plants

Sl. No.	Category	Central Financial Assistance for different capcity of Family Size Biogas Plants (Rs.)	
		1 cubic metre	2-6 cubic metre
1.	North Eastern Region States and Sikkim (except plain areas of Assam)	11,700/-	11,700/-
2.	Plain areas of Assam	9,000/-	9,000/-
3.	Jammu & Kashmir, Himachal Pradesh, Uttaranchal (excluding terai region), Nilgiris of Tamil Nadu; Sadar Kursoong and Kalimkpong sub-divisions of the Darjeeling district (WB), Sunderbans, Andaman and Nicobar Islands	3,500/-	4,500/-
4.	Scheduled Caste, Scheduled Tribe, desert districts, small and marginal farmers, landless labourers, terai region of Uttaranchal, Western Ghats and other/notified hilly areas	2,800/-	3,500/-
5.	All Others	2,100/-	2,700/-

B. Acceleration Programme on Energy Recovery from Urban Wastes: Large size biogas plants.

Capital subsidy being provided for different types of projects is as follows:

Sl. No.	Project Type	Subsidy
1.	Projects based on Biomethanation	Upto Rs. 2 crore per MW
2.	Projects for generation of power from biogas being produced at Sewage Treatment Plants	Upto Rs. 2 crore per MW
3.	Projects based on biomethanation technology for power generation from cattle dung, vegetable market and slaughterhouse wastes generated in the urban areas	Upto Rs. 3 crore per MW

C. Recovery of Energy/Power Generation from Industrial and Commercial Wastes and Effluents: Large size biogas plants.

Capital subsidy being provided for different types of projects is as follows:

Sl. No.	Wastes/Processes/Technologies/ Items	Capital subsidy/support
1.	Industrial waste to Biogas:	
	i) Biomethanation of low energy density and difficult industrial wastes	Rs. 1.0 crore/MWeq. (12,000 cu.m. biogas per day)
	ii) Biomethanation of other industrial wastes	Rs. 0.50 crore/MWeq. (12,000 cu.m. biogas per day)
2.	Power Generation from Biogas:	
	i) Boiler+steam Turbine Configuration	Rs.0.80 crore/MW
	ii) Biogas engine/Turbine Configuration	R.s 1.00 crore/MW
3.	Power Generation from Solid Industrial Waste: (Boiler + Steam Turbine Configuration)	Rs. 0.80 crore/MW
4.	DPR Preparation	50% of the cost (limited to Rs. 1.0 lakh per project)

D. Biogas based Distributed/Grid Power Generation Programme: Medium size biogas plants

Subsidy pattern for setting up of Biogas Based Power Generation Systems (BPGS) is as follows:

Sl. No.	Power generating capacity	Biogas plant capacity	Maximum support for preparation of DPR (Rs.)	CFA/subsidy limited to the following ceiling or 40% of the cost of the system whichever is less (Rs.)
1.	3-20 kW	25 cu. m to 85 cu. m	No DPR required	Rs. 40,000 per kW
2.	>20 kW to 100 kW	Any combination of above plants or alternate capacity/ design	20000 per plant	Rs. 35,000 per kW
3.	>100 kW to 250 kW	Any combination of above plants or alternate capacity/ design	1,00,000 per plant above 100 kW	Rs. 30,000 per kW